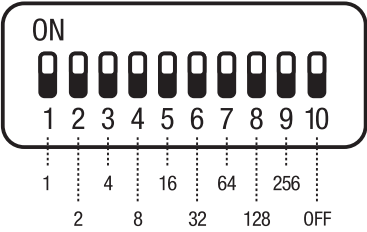


DMX 512 MODES

- 1. Whilst connected to an international standard DMX512 controller -
- 2. Set the 10th dip switch to the OFF position.
- 3. Set the 1st to 9th dip switches as per the laser's original address (Max: 255).
- 4. The machine has 5 controlling channels; its channels are distributed as listed below.



Channel	DMX512 value	Description
Channel 1 - Mode	0-69	Laser off
	70~139	Sound-to-Light mode
	140~209	Auto run mode
	210~255	DMX512 mode initiates other DMX control channels
Channel 2 - Rotation	0~130	Clockwise
	131~255	Anticlockwise
Channel 3 - Speed	1~255	10 level speed (from slow to fast)
Channel 4 - Flash	0-255	10 level speed (from slow to fast)
Channel 5 - Colour	0-69	Red laser
	70~139	Green laser
	140~255	Red and green laser

MASTER SLAVE MODE (NO CONTROLLER)

Link two units together by setting one of the units (the Master) to 'sud', or aot then set the Slave unit's dip switches to 10+2, this will display 000 in the LED display. Link the units using a DMX cable (3pin XLR to 3 pin XLR). If you set the Master unit to **sud** - both units will work via Sound-to-Light. If you set the Master to **aot** both units will work in Auto mode.

REMOTE CONTROL

Set the Master unit's dip switches 9+10 to On and the Slave unit's dip switches 10+2 to On. The units will Master Slave from the remote control. **Button A:** Blackout / **Button B:** Mode select. Please note in Master/Slave mode, only Sound-to-Light and Auto modes can be used. The **ire** mode will not work either unit and button C will only change the patterns on the Master unit (not the slave). Please note this feature is only available on units with a serial number after 8115501. This feature was not available prior to this serial number.

DMX MODE WITH CONTROLLER

Each unit uses 5 DMX channels to operate a chain of these units. Set all units address to the same if control over all units is to be the identical. If individual control of each unit is required by DMX, set the units at least 5 channels apart. Example: first unit - dip switch 1 On only (address channel 1), 2nd unit - dip switch 2+3 On only (address channel 6), and so on. Remote control function can not be used in DMX mode.

For the latest instruction manual updates and information on the entire Kam range visit:

www.kam.co.uk

Kam products are manufactured by: **Lamba plc**, Unit 1, Southfields Road, Dunstable, Bedfordshire, United Kingdom LU6 3EJ
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KAM
INSTRUCTION MANUAL

DMX Star Cluster 3DR
Three dimensional DMX laser effect with remote control

MANUAL REVISION 1.0

- 3D version of the best selling laser effect with remote control
- Multiple 100mW red and 40mW green laser points
- Three dimensional laser effect to create endless show creation possibilities
- Built-in high speed stepping motor
- High-efficiency optical system
- Sound-to-light sensitivity control with animated patterns
- 5 channel DMX operation / XLR DMX in and out
- 10 point dip switches
- Tough all metal chassis with adjustable hanging bracket
- Key operated power control
- Rated voltage: 240V AC / Rated frequency: 50/60Hz
- Laser wavelength: 100mW/650nm | 40mW/532nm

www.kam.co.uk

Due to continuous product development, specifications and appearance are subject to change.
If this product is ever no longer functional please it take to a recycling plant for environmentally friendly disposal.

Kam DMX Star Cluster 3DR

Three dimensional DMX laser effect

INTRODUCTION

Thank you for purchasing the Kam DMX Star Cluster 3DR. To optimise the performance of this product, prior to use, please read these operating instructions carefully to familiarise yourself with the basic operations of this unit. The Kam DMX Star Cluster 3DR is ground breaking laser effect that will excite both you and your audiences alike. Please keep these instructions in a safe place for future reference. This unit has been tested in the factory before being shipped to you. There is no assembly required.

WARNINGS

To prevent the risk of electrical shock or fire, do not expose this unit to high temperature, rain or moisture.

Laser Class 3B product. National regulations must be adhered to at all steps of installation. (In Germany apply DIN 56912 and BGVR LASER. Note: additional regulations may apply). Unintended reflections of the laser beam from reflective or metallic surfaces can be dangerous. Visible and invisible laser light direct beams can damage the human eye, do not look at any laser light directly. When cleaning the laser aperture, please use a soft cloth. There are no serviceable parts. Please have all servicing and adjustments made by a qualified service engineer. This appliance is to used by qualified personnel only.

LASER RADIATION WARNING

This unit uses diode lasers in green and red. This is CLASS 3B laser product. Avoid exposure to eyes. Never open the laser diode box, please refer unit to a qualified engineer for servicing or repairs.

FEATURES

Bright red and green laser
Red Laser: 100mW@650nm / Green laser: 40mW @532nm
Built-in high speed stepping motor
High-efficiency optical system
Remote control
Compatible with the international standard DMX512 signal
Revolves through the effect lens to create grid style laser
Input power: AC 240V 50/60Hz
Power consumption: Max. 30VA
Operating temperature: 20°C to 35°C
Storage: -20°C to 80°C (keep in a dry space for indoor use only)

UNPACKING YOUR NEW KAM PRODUCT

Carefully inspect your laser as you unpack it. If any damage is evident, please notify the supplier you purchased the unit from immediately. For safety reasons do not use the unit if any damage has occurred during transportation.

PACKING LIST

1 x laser show system
1 x remote control
1 x AC plug cord
1 x DMX signal cable
1 x user instruction manual

WIRELESS REMOTE CONTROL

To enable wireless remote control, set dip switches 9 and 10 to the ON position and all others to the OFF position.

Button A: Blackout

Button B: Mode select **sud** Sound-to-Light mode / **aot** Automatic mode / **ire** Manual Program select

Button C: This button changes the program displayed (please note only functions in **ire** mode)

REAR PANEL FUNCTIONS

1. Mains On/Off switch
2. Safety key switch
3. Mains fused IEC power input (240V)
4. LED display
5. 10 point dip switches
6. Microphone pick up
7. Microphone sensitivity adjustment
8. DMX input
9. DMX output

LED DISPLAY

The laser has several built in modes, these will be shown in the LED display as:

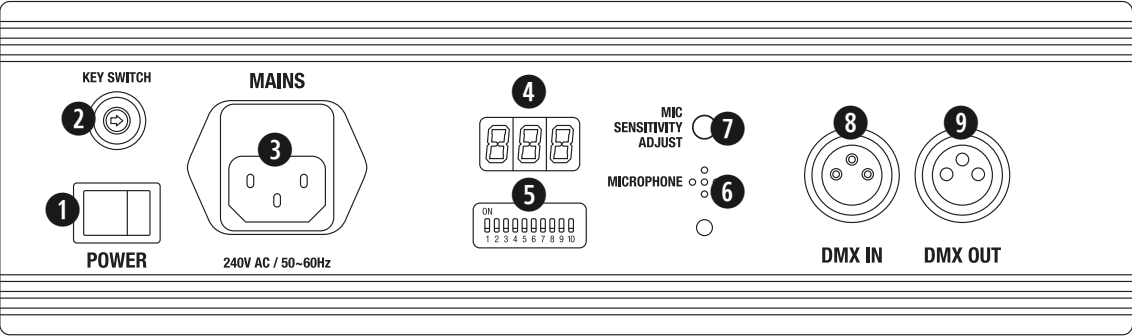
Sud Sound-to-light mode
Aot Auto play mode
Nol Laser off
001 DMX512 mode
000 Master / Slave mode for the Slave unit
IrE Wireless remote control mode

DIP SWITCH SETTINGS

All off Laser off
10 on Sound-to-light mode
10+1 on Auto play mode
10 off DMX controlling mode
10+2 on Sets Slave unit for Master / Slave mode
10+9 on Wireless remote control mode

SOUND-TO-LIGHT MODE

1. Choose a suitable position to install your laser
2. Set the 10th dip switch to the ON position.
3. Connect the power supply.
4. Play some music whilst setting the sensitivity adjustment to get the best effect. When the knob is turned to the left, sensitivity is at minimum, turn clockwise to increase the sensitivity.



Kam DMX Star Cluster 3DR rear panel